



Conservation of Habitat



The Arboretum
LOS ANGELES COUNTY ARBORETUM & BOTANIC GARDEN

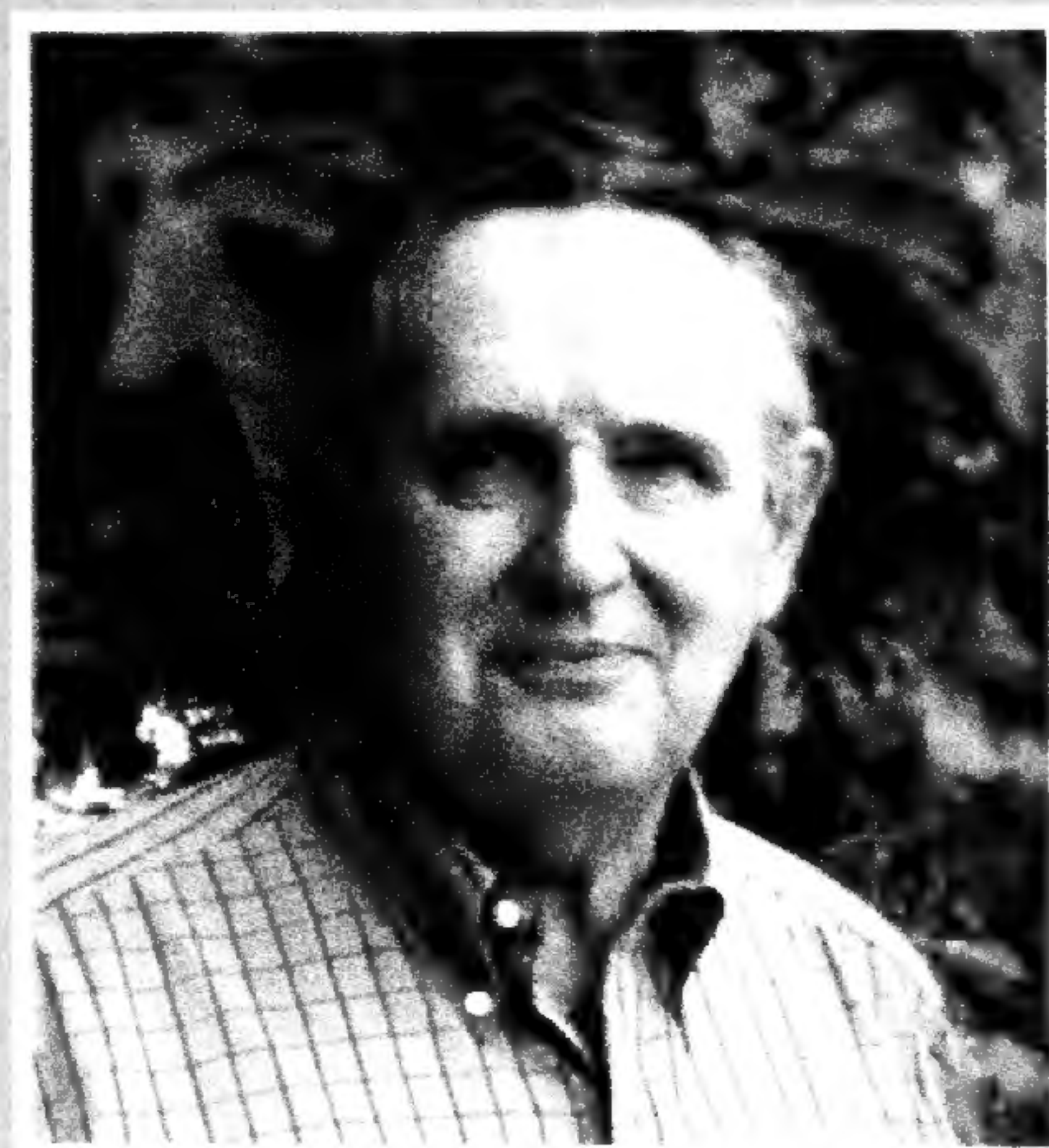
ARBORETUM MEMBERS' MAGAZINE
Issue 14, October, November, December 2008

MESSAGE FROM THE BOARD

G. Arnold Mulder, M.D., President

LOS ANGELES ARBORETUM FOUNDATION

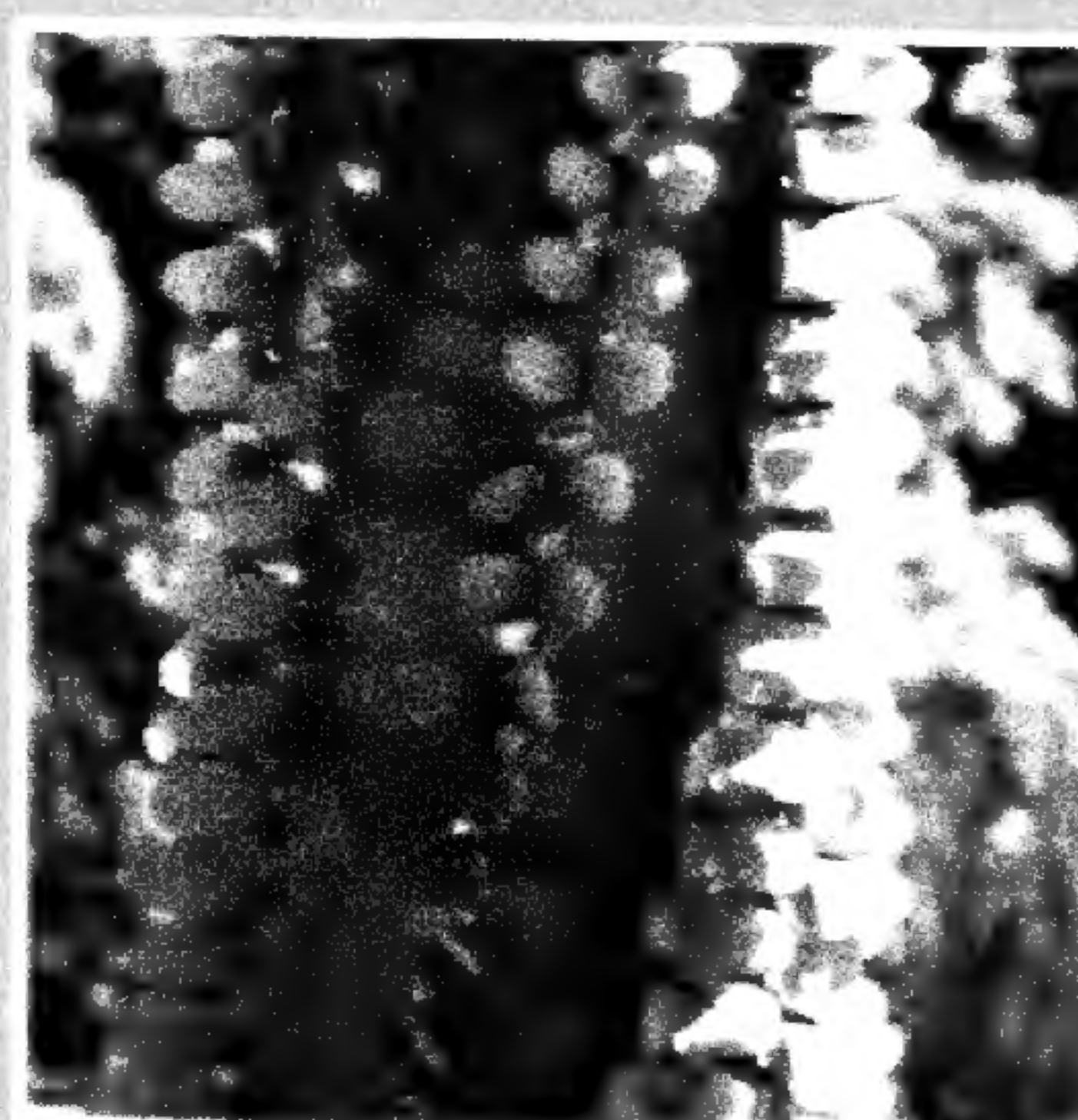
BOARD OF TRUSTEES



As we enter the fall season, I see new colors and new growth happening throughout the garden. I see the end of this year full of great accomplishments and new leadership taken by Timothy Phillips, who is acting as the Interim Chief Executive Officer. His knowledge and passion for plants can be seen throughout the garden as he takes great care and interest in showcasing The Arboretum's amazing plant and historic collections.

In the coming years you will see more of our conservation initiatives become a greater part of the garden and its programs and events. Keeping this in mind, I hope that you support these activities in any way that you can.

We hope you and your families have an enjoyable holiday season, and that you continue your advocacy and support of The Arboretum.



Alluadia procera



Nepenthes



Wollemi Pine

Board Officers

President, G. Arnold Mulder, M.D.

1st Vice President, Jane R. Herrmann

2nd Vice President, Burks L. Hamner

Treasurer, Timothy K. McCarthy

Entire Board

Bernhard H. Babcock, II

James I. Bang

Carolyn D. Bennett

George A. Brumder

William W. Ellinger, III

Marlene C. Griffith

Burks L. Hamner

Shelley D. Harter

Austin H. Hathaway

Brian D. Helgoe

Jane R. Herrmann

Kenneth D. Hill, Ph.D.

Judy M. Horton

David D. Hu

George Kinkle

Timothy K. McCarthy

Virginia Lincoln

Nancy McDonald

G. Arnold Mulder, M.D.

Donivee Nash

Gilbert N. Resendez

Jim Rhodes

Leslie H. Abramson Rutten

Rose B. Sorensen

Sho Tay

Alan R. Tekerlek

Bob Weber

Interim Chief Executive Officer

Timothy R. Phillips

*The Arboretum's mission is to cultivate our natural, horticultural and historic resources for learning, enjoyment and inspiration.
Our vision is to be one of the world's truly great arboreta and botanic gardens-the garden which best reflects Southern California's distinct
climate, community and openness to new ideas.*

DEAR ARBORETUM MEMBERS

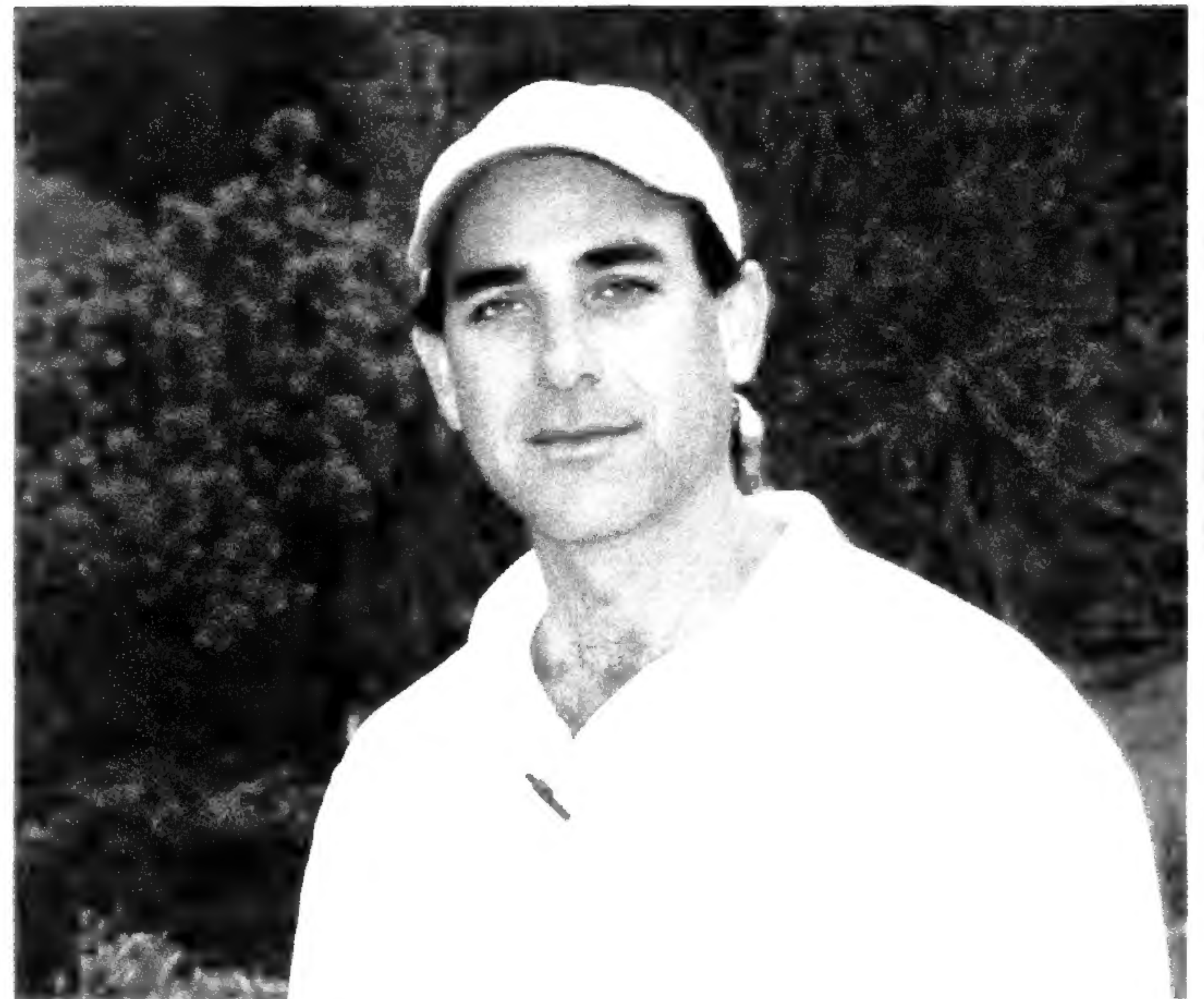
Timothy R. Phillips, Interim Chief Executive Officer

The Arboretum is 60 years old this year, and it has come a long way from the days of Samuel Ayres, the official founder of The Arboretum. Mr. Ayres would be proud of what his dream has become and where it's going to go. I too, after almost eight years of service, as The Arboretum Superintendent and now the Interim Chief Executive Officer, am proud of what we have accomplished and where The Arboretum is going.

The Arboretum is an amazing place: a place for the community to gather, a place of education, and a place of botanical wonder and intrigue. The Arboretum truly provides an essential service for human well being, environmental awareness and stability, and historical preservation.

Nothing pleases me more than receiving unsolicited comments about how great The Arboretum looks, how wonderful a new exhibit is, or how much fun they had at an event or lecture. Moreover, my spirits are always lifted by the sounds of children enthusiastically making their way from one garden to the next, laughing and feverishly discussing their first encounter with a carnivorous plant, their first adventure through the Madagascar Spiny Forest or in a chorus of voices asking me "which way to the stick house?" All of the above happens often.

As Arboretum members, I encourage you to come visit as much as you can, become a volunteer, engage a staff member in a conversation, visit



The Arboretum's vast botanical and horticultural library, attend a lecture, a class, and a plant show. Have lunch at the Peacock Café, wander through the Madagascar Spiny Forest, visit the Queen Anne Cottage, journey into the past in the Prehistoric Forest, or take a botanical journey to the land down under via the newly created Serpent Trail in the Australian Discovery Area. I assure you, you will be happy you did.

I truly hope you are enjoying your membership and are able to utilize The Arboretum for all its worth. If for nothing else, relaxing strolls and peace of mind.

PLANTS & PEOPLE

Habitat conservation in Mediterranean climate areas: a trip through the web

Susan C. Eubank, Arboretum Librarian

Now when our newsletter editor, Cynthia Vargas, informed me that our next issue had the theme of habitat conservation, I'll admit I was a bit flummoxed about how I could write a "Discovery Trails" article without revisiting our Englemann Oaks (*Quercus engelmannii*) again and again. When my colleague, Botanical Information Consultant, Frank McDonough, suggested I think broad, think Mediterranean climate areas, I started to get excited about a Discovery Trails that would take me on a journey to places I hadn't really explored in detail. That is the habitats of the five Mediterranean climate areas which have the most similar features to our own Southern California climate.

Now I knew The Los Angeles County Arboretum and Botanic Garden couldn't afford a quick trip around the world, but as a librarian, I knew how I could get some of that experience right at my desk in The Arboretum Library.



I had to test out my trip on Timothy Phillips, our Interim Chief Executive Officer, and he suggested my hook could be "biodiversity hotspots." Now there is a good term to google. If you look at www.biodiversityhotspots.org, you will notice in the "Jump to Hotspot" section that all the Mediterranean climate regions are biodiversity hotspots and several of them have a couple of different habitats separated out.

What you learn when you ramble through that website about the Mediterranean Basin is that almost 1/2 of the plants native to the Mediterranean are endemic to that area. Wow! Are half the plants native to California only found in California? No. Well, back to habitat conservation. The International Union for Conservation of Nature and Natural Resources has a Centre

for Mediterranean Cooperation www.iucn.org. If you ramble around that website for awhile, you'll notice a lot of work is being done to encourage the establishment of "protected areas." The language got a little dense for me, so I needed a break and started looking for inspirational websites and found a beautiful one at www.dogadernegi.org. It is done by Doğa Derneği, BirdLife International's Partner in Turkey. They created an exhibit about Turkey's natural environment as an asset to their desire to become part of the European Union. Through the exhibit you can get a sense of their commitment to habitat conservation and the extraordinary diversity found in Turkey. That website makes me want to hunt up the Turkish plants in The Arboretum.

If we move onto southwestern Australia the government of the state's Department of Environment and Conservation, www.dec.wa.gov.au, as well as the Southwest Australia Ecoregion Initiative, www.swaecoregion.org, throws you right into the environment with publications on un-verified sightings of Tasmanian tigers (*Thylacines*) and the debate about using Xanthorrea fire-rings as a dating method. The government site has an entire section on living sustainably and has voluntary suggestions about how to protect biodiversity on your land.

My South African trip brought me to familiar territory. My favorite South African magazine, Veld & Flora is put out by the Botanical Society of South Africa and if you go to their website projects area, www.botanicalsociety.org.za, you'll see a wonderful project of land stewardship on the Bokkeveld Plateau. It is rich in endemics, especially bulbs. How I would love to see those winding their way through our Aloe Trail. My other favorite South African site was the Succulent Karoo Ecosystem Programme, www.skep.org with many projects devoted to conserving habitat in Namaqualand and other areas with strikingly beautiful succulent treasures. The edges of the website rotate through remarkable images.

Chile was a little tougher to garner my attention. There are easy websites to find about their forest conservation efforts: www.globaltrees.org and www.worldwildlife.org, which has a pdf file titled "*Southern Chile: a land of ancient forests and abundant oceans*", but I was looking for the Southern-California-like part of Chile which in the southern hemisphere is farther north than those ancient forests. But my persistence lead me to a Smithsonian Institution Department of Botany Centres of Plant Diversity (The Americas) site www.botany.si.edu about the Atacama fog desert with strange and wonderful cacti and the Mediterranean region of Chile touting its more botanically diverse matorral, which superficially resembles our less botanically diverse chaparral. The only references to habitat conservation on



the sites are the designations of National Parks in Chile in both areas. A trip to www.conaf.cl Corporación Nacional Forestal of the Chilean government talks about the protection of 62,000 individuals of the Chilean wine palm (*Jubaea chilensis*) of which The Arboretum has several examples.

Back in California, I naturally gravitated toward the California Native Plant Society website for their view on habitat conservation and I found the announcement of their January 2009 Conservation conference, www.cnps.org. I fell deep into the California Department of Fish and Game Habitat Conservation Branch www.dfg.ca.gov, which had old publications on the rare and endangered plant I have on some land I own in the foothills of the southern Sierras.

It seems that mediterranean climate habitat conservation is alive and thriving on the internet and all it takes to get educated and involved is a quiet afternoon and my wily librarian search strategies. If you'd like my assistance on your research adventure, just contact me at The Arboretum Library at 626-821-3213 or Susan.Eubank@arboretum.org.

A list of where to find the information listed in this article:

www.biodiversityhotspots.org
www.iucn.org/places/medoffice/en/index.html
www.dogadernegi.org/english/?page=7
www.dec.wa.gov.au
www.swaecoregion.org/
www.botanicalsociety.org.za/cu/projects.php
www.skep.org
www.globaltrees.org/proj.asp?id=1
www.worldwildlife.org/what/wherewework/southernchile/WWFBinaryitem6441.pdf
www.botany.si.edu/projects/cpd/sa/sa43.htm
www.botany.si.edu/projects/cpd/sa/sa44.htm
www.conaf.cl/?seccion_id=1cc2ac1aef005e435161a33ff06dbada&unidad=2
www.cnps.org/cnps/conservation/conference/2009/highlights.php
www.dfg.ca.gov/habcon/goals.htm

COLLECTIONS

Frank McDonough, Botanical Information Consultant

Hauya elegans ssp. lucida

Looking at this tree's pink-tinged white flowers, you might be struck with a feeling that they are vaguely familiar; this feeling is quite justified. *Hauya elegans ssp. lucida* is closely related to the Evening Primrose. It is native to the dry forests of Central America and southern Mexico. Although, like rainforests, these areas can experience up to 100 inches of rain a year, they can also experience long periods of drought. In order to cope with these long dry periods, many trees, like *H. elegans* in the dry forests, will lose their leaves in order to save water. The Mexican dry forests where *H. elegans* is native are the most diverse of their kind in the world. Some of the finest woods in the world, like mahogany and ebony, are found in dry forests. Because they are prone to burning and are located in areas that make for good agriculture, dry forests are very sensitive to human activities and constitute some of the most threatened areas on the planet. The Arboretum has several kinds of *Hauyas*, most located on Tallac Knoll.



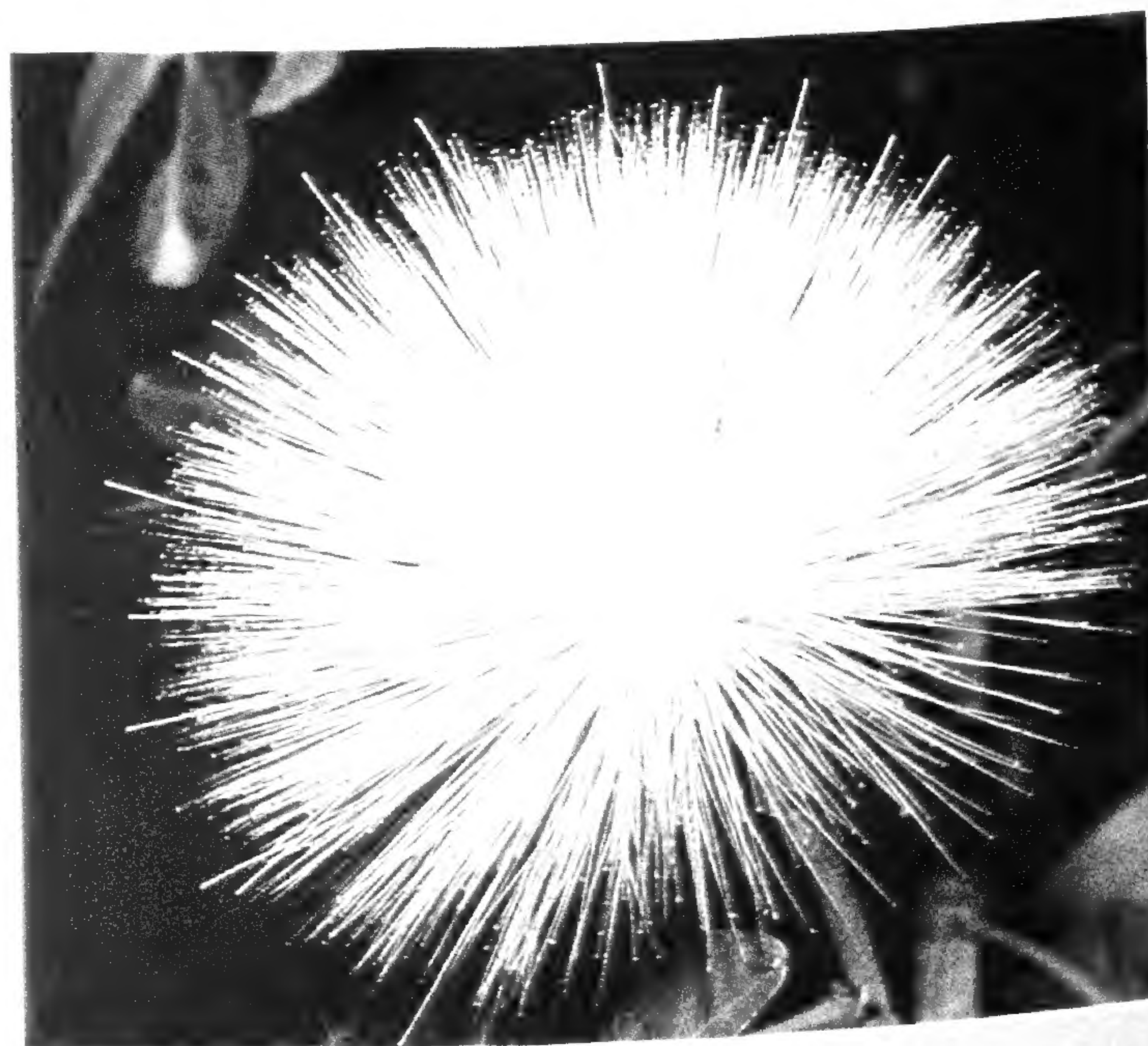
Ruttya fruticosa

This always-flowering shrub can be found on the Southwest corner of the African section greenhouse. Jammy mouth, rabbit ears, and Monkeyface are just a few of the many common names for this constantly flowering East African shrub. Growing over ten feet tall, *R. fruticosa* occurs in a wide range of East African tropical forests. Its unusual bright red flowers attract hummingbirds and it is a browse (food) plant for wildlife in its native range.



Calliandra haematocephala

Its genus name *Calliandra* means beautiful stamen, and its species name *haematocephala*, bloody head, appropriate considering that most of the flower is made up of red stamens radiating from its base. Native to Bolivia, *C. haematocephala* is used around the world as animal feed and as a hardy ornamental in subtropical regions like ours. Research has found that *C. haematocephala* produces insecticidal proteins that protect it from attack by pests, but are not toxic to animals, man or honeybees. A clambering bush that can be trained like a vine, *C. haematocephala* can grow to 15 feet. A robust specimen of this plant is located on the road to Tallac Knoll.



Specialty Plant Collections

The Arboretum's collection of over 18,000 accessioned plants is roughly divided into five geographic sections, two greenhouses, and several other specialty collections and exhibits. Botanical Information Consultants David Lofgren and Frank McDonough will take you out into the grounds to tour these fascinating and extensive collections. Be sure to wear comfortable, rugged shoes, clothes you don't mind getting dirty and bring water because David and Frank are going to take you way off the beaten path and show you fascinating plants you may never have seen before.

The Australian Plant Collection: Dreams & Wonders from Down Under

The African Plant Collection: Amazing Gifts from the Cradle of Life

The Asian/North American Collection: Trees & Shrubs from China to Chappaquiddick

The Palm & Bamboo Collection: The Most Useful Plants in the World

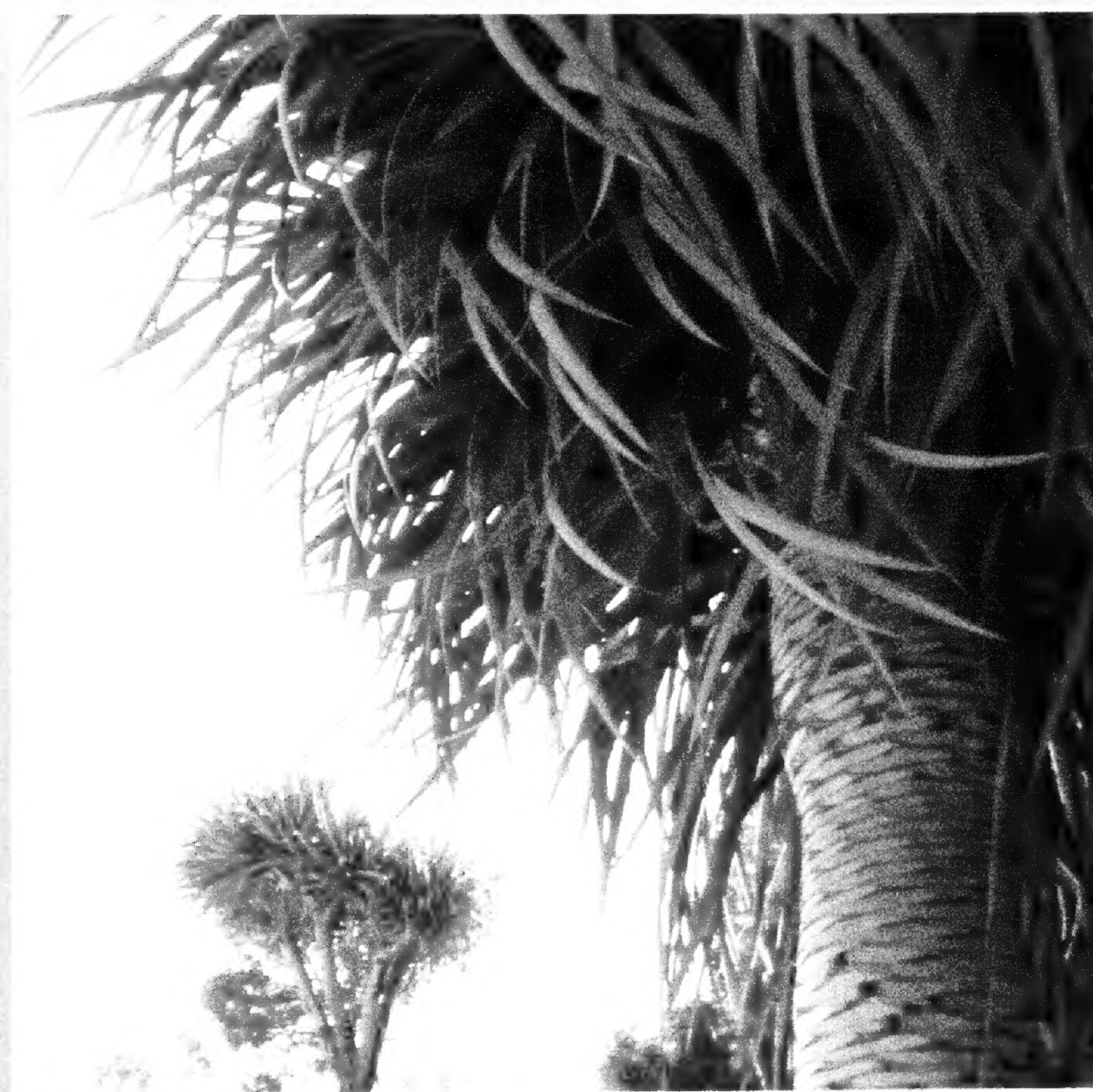
The Tropical & Begonia Greenhouses: From Orchids to Ogres

The Madagascar Spiny Forest: Hostile, Beautiful, and Threatened

The Arboretum Herb Garden: Plants for Eating, Living, Praying, Healing

This program will run March-April 2009

\$5 member/\$7 non-member per class



ART IN THE GARDEN

Multicultural Weaving Exposition

Throughout human history, weaving has been an integral part of daily living. Cultures throughout the world have created shelter, clothing, shoes, baskets, rugs, not only for basic necessity, but as cultural expression.

In January 2009, we introduce to you these different worlds and bring to light their many commonalities and beautiful intricacies. In homage to indigenous cultures around the globe, and today's modern weaving art forms, the LA County Arboretum and Botanic Garden is proud to announce its upcoming Multicultural Weaving Exposition 2009.

We invite you and your family to join us in learning from area artists and artisans as they present their work in a remarkable series of lectures and workshops. The exposition will begin January 10, 2009 and continue every 2nd and 4th Saturday of the month.

Watch our website for updates.



CONNECT

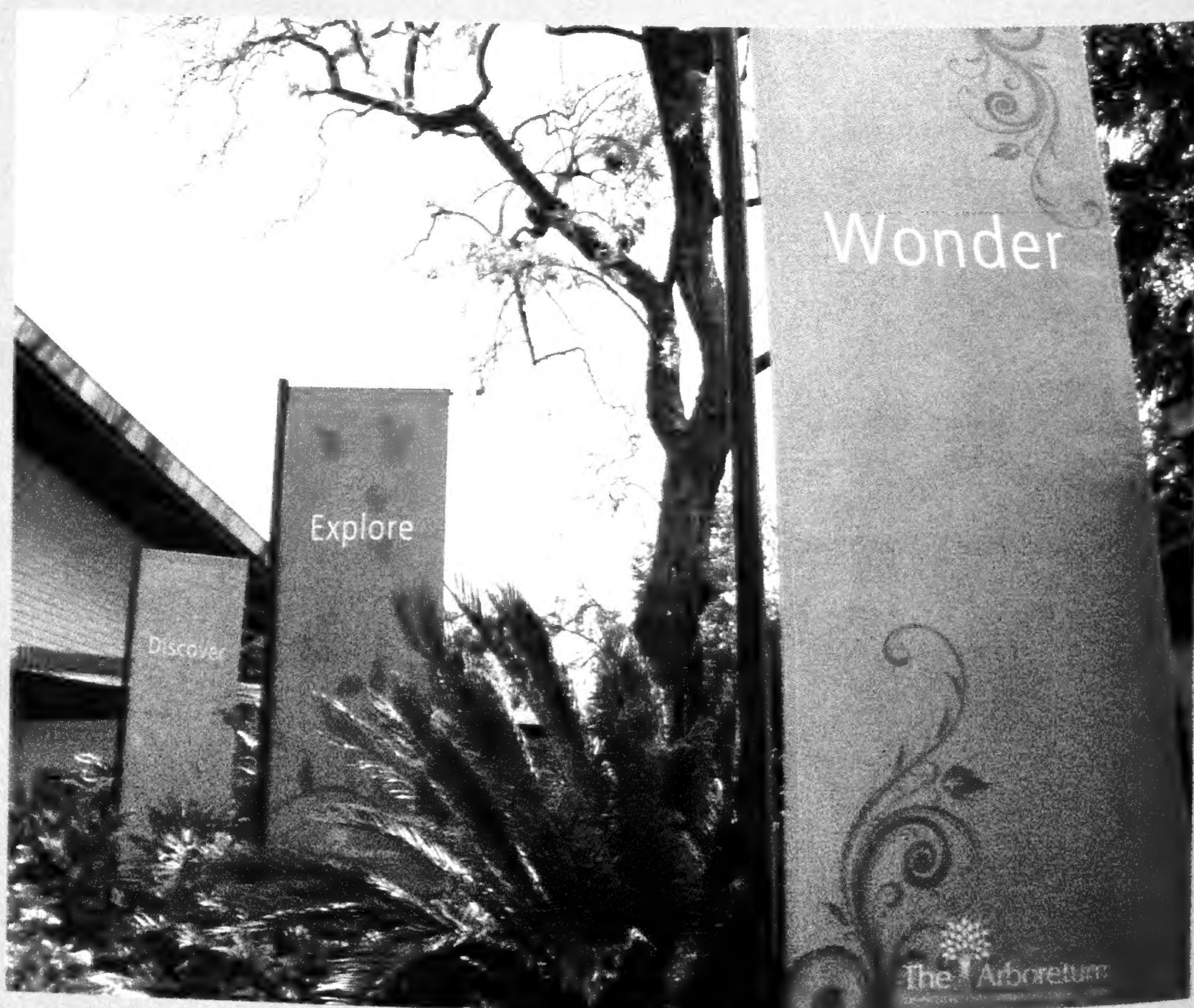
Holiday Gifts

What never needs watering and offers a rainbow of colors all year round?

A membership to The Arboretum.

Give an annual gift membership to your loved ones and know you are also helping support the garden and sharing your love of nature all year long. You will also be giving FREE admission to The Arboretum and over 200 participating gardens throughout the United States and Canada, a discount on selected classes, a 10% discount in the Garden & Gift Shop, a one year subscription to Members Magazine and Calendar, and invitations to special events.

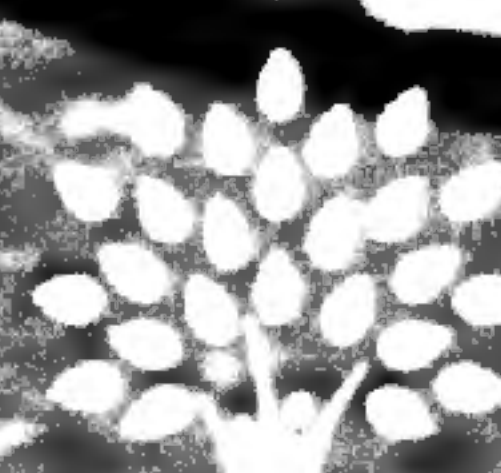
To purchase gift memberships, visit the Membership office or call 626.821.3233.





2008

October November December


The Arboretum
LOS ANGELES COUNTY ARBORETUM & BOTANIC GARDEN

301 N. Baldwin Avenue, Arcadia, CA 91007 | www.arboretum.org

Annual Halloween Family Festival

Sunday, October 26

11am-3pm

*Halloween Haunts for the Kid in All of Us
Day of the Dead Craft Activities for Our Inner
Artist and a Cornucopia of Treats to Tantalize
Us All!*

Spend a fun-filled day celebrating fall, nature, and, of course, Halloween. Explore the wonders of The Arboretum – Slither Along the Serpent Trail, Creep Through the Catawampus, Scavenger Hunt Around the Historical Section, go on the Scratch and Sniff Tour of the Herb Garden, and Journey Through the Tropical Jungle!

Children's activities include nature-related crafts, art projects, story telling, pumpkin decorating, music, treasure hunt, face painting, and lots of treats! Bring a pre-washed white t-shirt for a very special art project.

And, don't forget to come dressed in your favorite Halloween costume for great photo opportunities.

Events

October 2008 - January 2009:

October 4 & 5 9am - 4pm

Korean Stone Exhibit

October 11 6:30pm - 10pm

The Intelligent Use of Water Film Competition

October 26 11am - 3pm

Annual Halloween Family Festival

November 8 & 9 9am - 4pm

Winter Cactus Show & Show

December 9 10am - 12pm

Old Fashioned Wreath Workshop

December 14 10am - 3pm

An Old Fashioned Holiday at the Queen Anne Cottage

January 17 & 18 10am - 4:30pm

Baiko-En Bonsai Kenkyukai Show & Sale

Please call 626.821.4623 for class reservations and

Park Management
(Mt. San Antonio College class)
6-9:10pm

Botanical Watercolor Workshop
9:30am-1pm

Garden Talks with Lili Singer
Field Trip: A Visit to Pitzer Arboretum,
Elmont, 10:00am-12:30pm
Pitzer Arboretum includes 15 separate gardens showcasing California natives, other mediterranean climate plants, and succulents from around the world. Our private tour includes a talk by Joe Clements, the Arboretum's director (and former curator of the Huntington's Desert Garden). Reservations required for field trips. Call 626.821.4623. \$20 per class, field trips are self-driven.

Compulsive Gardeners - Class filled
Rebana
9:30-11:30am Advanced, 11:30am-1:30pm Basic

Kids Art
12:00-1:00pm

Kids & Families

Under the Stars Let's go Stargazing!

6-9pm. (Back by popular demand.)
What happened to Andromeda after her moon offended Poseidon? Her constellation is one of the oldest recognized in the fall sky. Where are Ursa major (big dipper) and Ursa minor (little dipper) this time of year? Get your bearings so these patterns will become your roadmap to the stars. We will make a star clock, a planisphere, and take a close up look at the visible planets. Register early as class is limited to 25! Family Fun Fees apply.

Daylight Saving Time ends.
Annual Halloween Family Festival
11:00am-3:00pm



Botanical Watercolor Workshop
9:30-11:30am

Tai Chi
6:30-7:30pm

Park Management
(Mt. San Antonio College class)
6-9:10pm

Garden Talks with Lili Singer
Behind Closed Doors: Trends, New Plants and Sustainability with Nicholas Sladkov
9:30am-1:00pm
Hear an overview of what gardeners want, the global move toward sustainability, and how wholesale growers are responding to both with environmentally sound growing practices and the introduction of beautiful, resilient landscape plants. Nicholas is Director of Plant Introductions for Monterey Nursery, and is back by popular demand. \$100 for the series, \$20 per class. Reservations or you may pay at the door.

Compulsive Gardeners - class filled
Rebana
9:30-11:30am Advanced, 11:30am-1:30pm Basic

November

10am-12noon
FREE WITH ADMISSION. Join your adventure guide, Colleen Biles, on the 1st Saturday of each month as we explore The Arboretum. Each Saturday is new and exciting, and will have a different theme relating to nature or the environment. Meet by the fountain in front of the Oak Room. Come early as space is limited to 25. Children of all ages welcome!

12:00-1:00pm

9:30-11:30am

6:30-7:30pm

(Mt. San Antonio College class)
6-9:10pm

3 Wednesdays (11/5, 12, 19)

9:30am-2pm

Olga Eysymontt, instructor

\$170 members/\$187 non-members

Open to all levels, the focus in this series will be color evaluation, mixing, and creating a tonal study followed by a color study

9:30-Noon

Using pliable willow twigs, create plantable, moss-wrapped balls using a simple weave and plenty of laughs! No experience needed. Have fun and go home with a beautiful handmade sphere! Leigh Adams is an "elderly child!" and brilliant artist who revels in alternative gardening, many artistic media and colorful installation work. \$100 for the series, \$20 per class/Reservations or you may pay at the door.

- Class filled

9:30-11:30am Advanced; 11:30am-1:30pm Basic

9am-4pm

12:00-1:00pm

1-4pm

New child-friendly mosaic techniques for the home and classroom. Join The Arboretum's Artist-in-Residence Leigh Adams to learn how you and your children or students can create beautiful works of art using new products and techniques. Learn how simple it is to create wonderful mosaics in a variety of media that are not only simple enough for children, but safe as well. \$10 members/\$12 Non-members + \$5 for materials. To register, please call 626.821.4623 or email colleen.biles@arboretum.org

9:30-11:30am

6:30-7:30pm

(Mt. San Antonio College class)
6-9:10pm

9:30am-2pm

3-5pm

For the 7th year in a row, Susan and Peggy are ready to jump-start your holidays with a fun afternoon filled with delicious recipes to boost your party repertoire. Raffles, laughter and stories highlight this FRESH fundraiser. Reserve your spot quickly as space is limited. \$40 members/\$45 non-members; pre-registration required; call 626.821.4623

December

9:30-Noon

Fall is bulb-planting time! This class presents spring-blooming bulbs, corms, tubers and rhizomes from California and South Africa – colorful survivors that thrive in this climate, and regrow and reflower each spring, without replanting. Along with selection and care, we'll discuss companion plants, container culture, and bulbs for cutting. \$100 for the series, \$20 per class/Reservations or pay at the door

— Class filled

10am

1-3 pm; Family Fun fees apply

12:00-1:00pm

9:30-11:30am

6:30-7:30pm

(Mt. San Antonio College class)
6-9:10pm

9:30am-2pm

12:00-1:00pm

9:30-11:30am

6:30-7:30pm

(Mt. San Antonio College class)
6-9:10pm



Botanical Illustration: Fall & Winter

9:30-11:30am

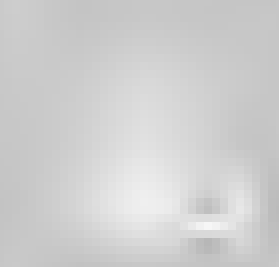
Paint & Paper

(Mt. San Antonio College class)

6-9:10pm

7th & 25th

6:30-7:30pm

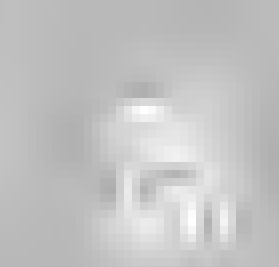


Botanical Illustration: Winter & Cold Weather

3 Wednesdays (12/3, 10, 17)
9:30am-2pm

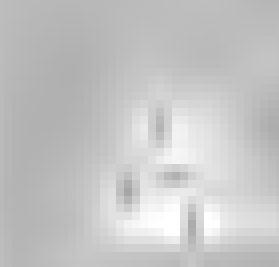
Olga Eysymontt, instructor
\$170 members/\$187 non-members

This fourth series is the culmination of everything that was presented in the previous three classes! Students will illustrate two flowers.



Family Adventures: Hike, Broomstick, and Sing Along Fun! W/nyll

10am-12noon; Free with admission; Come early as space is limited to 25.



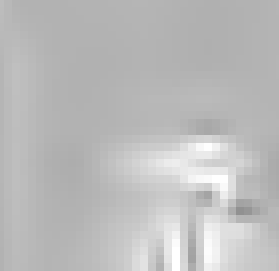
1st CN

6:30-7:30pm

Paint & Paper

(Mt. San Antonio College class)

6-9:10pm



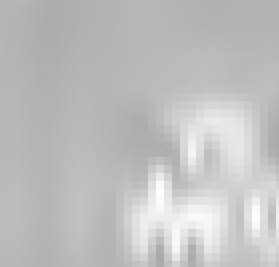
Make an Old-Fashioned Wreath

10am-Noon

Instructors: Marla Carter and Esme Gibson and Friends

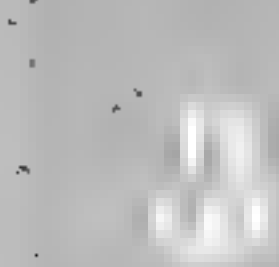
\$25members/\$30 non-members (all materials included); Reservations required.

Using fresh greens (both the traditional and the unusual) from The Arboretum grounds, make a wreath to welcome in the holidays. All wreath materials (an incredible variety of greens!), frame and wire will be provided. Please bring your own gardening gloves, clippers and wire cutters (and any decorations you may wish to add to your creation).



Botanical Illustration: Flowers & Cold Weather

3 Wednesdays (12/3, 10, 17)



Plant Materials Hunt Time

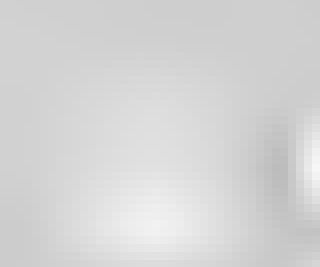
10am

Wade & Family

With Friends

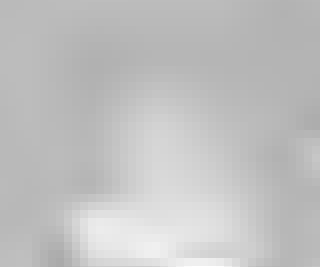
1-3pm

You only have to go to your backyard for great inspiration! Join us to collect all the natural materials you will need to make a great gift for someone special, as well as a fun Christmas ornament for yourself to take home. Family Fun Fees Apply



Special Christmas Holiday at the Olvera Adobe

10am-3pm

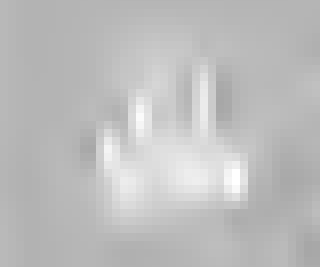


No Bookworms

Botanical Illustration

Winter & Cold Weather

3 Wednesdays (12/3, 10, 17)



No Bookworms



1:30-4:30pm

\$22 members/\$25 non-members

Learn the essentials of gardening in tune with the seasons.

WINTER:

Sharpen up the pruning shears-grab the loppers.

Don't let them intimidate you! They're only roses!

(pruning for healthy roses and fruit trees);

The allure of bare root plants

(hint: it's cheaper and the choices are better);

Success with winter color/winter vegetables;

Planting natives and other appropriate plants

10am-12noon

Steve Gerischer, Instructor

\$20/\$22 non-members

Pruning roses promotes healthier growth and increases flower production. Learn the various techniques for pruning different types of roses - hybrid teas, shrub roses, climbers, miniatures, Icebergs, floribundas and Old Garden Roses. Learn to identify and eliminate suckers and diseased wood, and how to grow healthy roses in our climate.

Winter 2009: 8 Thursdays, Jan. 15 – March 5

9:30am-12noon

\$100 for the series, \$20 per class / Reservations or you may pay at the door. Information and registration: 626.821.4623 or jill.berry@arboretum.org. Field trips are self-driven and require pre-registration

Celebrate the sweet, tangy bounty of winter with tangerine evangelists Jim Churchill and Lisa Brenneis of Churchill Orchards in the Ojai Valley. Hear how they've learned to survive gophers, drought, frost, produce buyers and other adversities, in order to grow some of the finest and most delicious certified organic citrus on the planet. A tangerine tasting follows the lecture. Yum!

Lessen your dependence on imported water and discover the aesthetic, economic and environmental benefits that turf substitutes can bring! Learn how to kill your turfgrass lawn and prepare your new space for smarter plantings. Steve is a popular series guest speaker who divides his time between creating award-winning landscapes with his company, Larkspur Garden Design, and lecturing on a wide variety of topics relating to gardening in Southern California.

Spend the morning with a preeminent rose hybridizer and 12-time All American Rose Selections (AARS) winner! Tom's illustrated lecture reveals new varieties for 2009, as well as old and new garden roses that put on the most colorful shows. Tom is director of research for Weeks Roses, a world-famous wholesale grower of bareroot roses. His AARS award-winning roses include Julia Child, Hot Cocoa, Fourth of July and 2009 winner Cinco de Mayo.

This simple, fun activity for gardeners begins in a classroom to discuss the process of constructing fences from winter-pruned materials (think flexible, leafless branches and twigs). We'll finish outdoors with hands-on fence-building. No experience necessary! Brian is an admired series guest lecturer and manager of horticulture and displays at Descanso Gardens in La Canãda Flintridge.

Many species and cultivars of manzanita, or *Arctostaphylos*, are valuable additions to the cultivated garden, offering a variety of habits, gorgeous bark, handsome foliage, wildlife habitat and beautiful winter and spring flowers. Learn which manzanitas are best for your conditions, how to care for them and which other plants make good companions. Bart is special projects director at Rancho Santa Ana Botanic Garden in Claremont and an internationally recognized expert on California flora. He is co-author of two books: "California Native Plants for the Garden" and "Care & Maintenance of Southern California Native Plant Gardens."

Planning a garden, large or small? This heartfelt lecture discusses how to create gardens that arise in sympathy with the natural universe. Mayita has been designing mediterranean-climate gardens for nearly twenty years and was recently named one of LA's Best by Los Angeles magazine. As a founding member of G3 LA, LLC, she is realizing her dream of promoting the latest eco-restorative techniques and low-impact development principles to homeowners, design professionals and the surrounding community.

Exotic plant pests can destroy natural habitats, and they're often difficult and expensive to eradicate. This important presentation discusses the horticultural origin of invasive plants and the Plant Right program, a web-based educational effort to change the practices of the nursery industry and the gardening public on invasive plants. Carl is Regional Advisor-Invasive Plants with UC Cooperative Extension (<http://groups.ucanr.org/socalinvasives/>). He has been a weed scientist for 30 years, conducting research on integrated weed management in agriculture, and for the past eight years in natural habitats. He is past president of the California Weed Science Society.

All aboard for a private tram tour with The Arboretum's Superintendent and Interim CEO! We will visit many unique and historic locations on the 127-acre grounds, including the Australian sections and oak-shaded Tallac Knoll. Along the way, Tim will describe a wide range of plants, discuss The Arboretum's commitment to sustainable landscaping, explain the garden's everyday operations and share plans for future collections and installations.

Kids and Family Fun

All class fees include admission into the Arboretum!

Pre-registration is required. Registration will close at 5 pm the day prior to the class.

Individuals: \$5/\$6 non-members.

Family Fee: \$15/\$20 per family for non-members

For more information or to register, please call 626.821.4623 or email colleen.biles@arboretum.org

BUILD A GOURD BIRDHOUSE

October 11, 1-3pm

Many species of cavity-nesting birds have declined due to lack of appropriate nesting places. Inspired by the carved gourds used by Native Americans to draw insect-eating birds to their settlements (biological control), these long-lasting and beautiful birdhouses play a vital role in the conservation of these important birds. Join us to create one for your own backyard. Family Fun fees apply and there will be an additional \$5.00 charge for materials.

UNDER THE STARS

October 25, 6-10pm (Back by popular demand)

Lets go Stargazing! What happened to Andromeda after her mom offended Poseidon? Her constellation is one of the oldest recognized in the fall sky. Where are *Ursa major* (Big Dipper) and *Ursa minor* (Little Dipper) this time of year? Get your bearings so these patterns will become your roadmap to the stars. We will make a star clock, a planisphere, and take a close-up look the visible planets. Family Fun fees apply; Register early as class is limited to 25!

THE WONDERFUL WORLD OF WORMS:

Vermiculture (worm composting)

November 15, 1-3pm

Compost your kitchen scraps, leaves and other "garbage" into garden gold! Recycling the organic waste of a household into compost allows us to return badly needed organic matter to the soil and cut down on garbage going into landfills. This class will give you the tools and how-to's that will not only enable your family to create amazing free fertilizer, but provide a wonderful learning experience for your children as they learn about one of nature's most fascinating recyclers! Bring a large dark plastic tote, and we will supply the rest! Family fun fees apply.

GIFTS FROM NATURE

December 13, 1-3pm

You only have to go to your backyard for great inspiration! Join us to collect all the natural materials you will need to make a great gift for someone special, as well as a fun Christmas ornament for yourself to take home. Family Fun Fees apply

FAMILY ADVENTURES – FREE WITH ADMISSION

10am-12noon

Join your adventure guide, Colleen Biles, on the 1st ~~Sat~~aturday of each month as we explore the Arboretum. Each ~~Sat~~aturday is new and exciting, and will have a different theme relating to nature or the environment. Meet by the fountain in front of the Oak Room. Come early as space is limited to 25. Children of all ages are welcome! Family adventures will go on rain or shine so dress appropriately!

~~Oct~~tober: (no meeting)

November 1: Serpent Trail

December 6: Orchids, Bromeliads, and Bug Eating Plants (oh my!)

ANNUAL HALLOWEEN FAMILY FESTIVAL

Sunday, October 26, 11am-3pm

Halloween Haunts for the Kid in All of Us, Day of the Dead Craft Activities for Our Inner Artist and a Cornucopia of Treats to Tantalize Us All!

See Calendar cover for details.

KIDS IN NATURE

Colleen Biles, Youth Education Manager

"When we see land as a community to which we belong, we may begin to use it with love and respect."

Aldo Leopold, Sand County Almanac

In a world where most of us learn about nature via TV, many of today's children have lost their connection to the natural environment. Urban settings and hectic after school schedules provide little opportunity for a child to explore a pond edge, discover what lives under a log, or watch butterflies visit flowers. Sadly, this disconnect has become so prevalent that it has earned the term "extinction of experience" or "nature-deficit disorder".

If we are to have our children feel a sense of place in a global community, and truly empower them to understand their environment and the difference they can make, we must provide these future stewards with the knowledge and skills they need to become active, environmentally literate citizens.

What better place to start than in the schoolyards where most of their day is spent? These often barren, asphalt dominated deserts are the perfect focal point to begin the process of reconnection by offering children an opportunity to reward their natural curiosity and experience nature. There are schools across the country where this is

happening, and The Arboretum is proud to be a part of this initiative. The Arboretum is partnering with the University of Wisconsin-Madison Arboretum to bring the nationally recognized Earth Partnership for Schools (EPS) program to southern California.

This award-winning program invites parents, teachers, and community members to strengthen their commitment to healing the land and nurture this commitment with our children as we join together to create natural spaces on school grounds. EPS provides teachers with the training that will allow them to work with K-12 students to plan, plant, and care for these natural spaces, as well as provide their students with meaningful experiences that meet state educational mandates in the creative arts, science, social studies, math, and language.

Please join us as we watch this program grow and prosper in southern California.

If you are interested in learning more about this program, and how you can get your child's school involved, please contact Colleen Biles at Colleen.Biles@arboretum.org



An Old Fashioned Holiday at the Queen Anne Cottage

Sunday – December 14 10:00 a.m. – 3:00 p.m.

Stroll down memory lane and view treasures and furnishings normally seen only through the windows of this charming Victorian-era cottage. View the ornate dwelling in its Christmas finery, which has become a southland tradition for visitors from near and far. Experienced docents will guide tours throughout the day, providing fascinating information about the history of the Queen Anne Cottage. Following a tour of the Queen Anne Cottage, don't miss a visit to The Arboretum's historic Coach Barn and the Santa Anita Depot, reminiscent of days past.

You will also have an opportunity to observe wreath-making demonstrations, using materials from The Arboretum grounds; listen to holiday carolers; delight in refreshments of holidays long ago; and watch your children create Victorian-style holiday ornaments or decorate a gingerbread man.

Free with admission to The Arboretum.



MEET & GREET

Remembering Volunteer Clyde Alfred Reavis

The Arboretum community, family and friends joined together on Thursday, August 14 to commemorate a memorial bench on the edge of Baldwin Lake in the Tropical Forest in honor of volunteer Clyde Alfred Reavis. Clyde died peacefully on August 7, 2008 at his home after a courageous battle with cancer.

Clyde, a retired professional photographer and owner of Hastings Camera Shop for years, was a member and loyal supporter of The Arboretum for over two decades.

Clyde joined Los Voluntarios in 1993, and could be seen often with camera in hand around the grounds. "I like photographing beauty," he once said. "I love being with other volunteers who work so hard at this place of beauty." It was this appreciation for The Arboretum that garnished Clyde an honor as a Volunteer of the Year in 2005 by the Los Angeles County Department of Parks and Recreation.

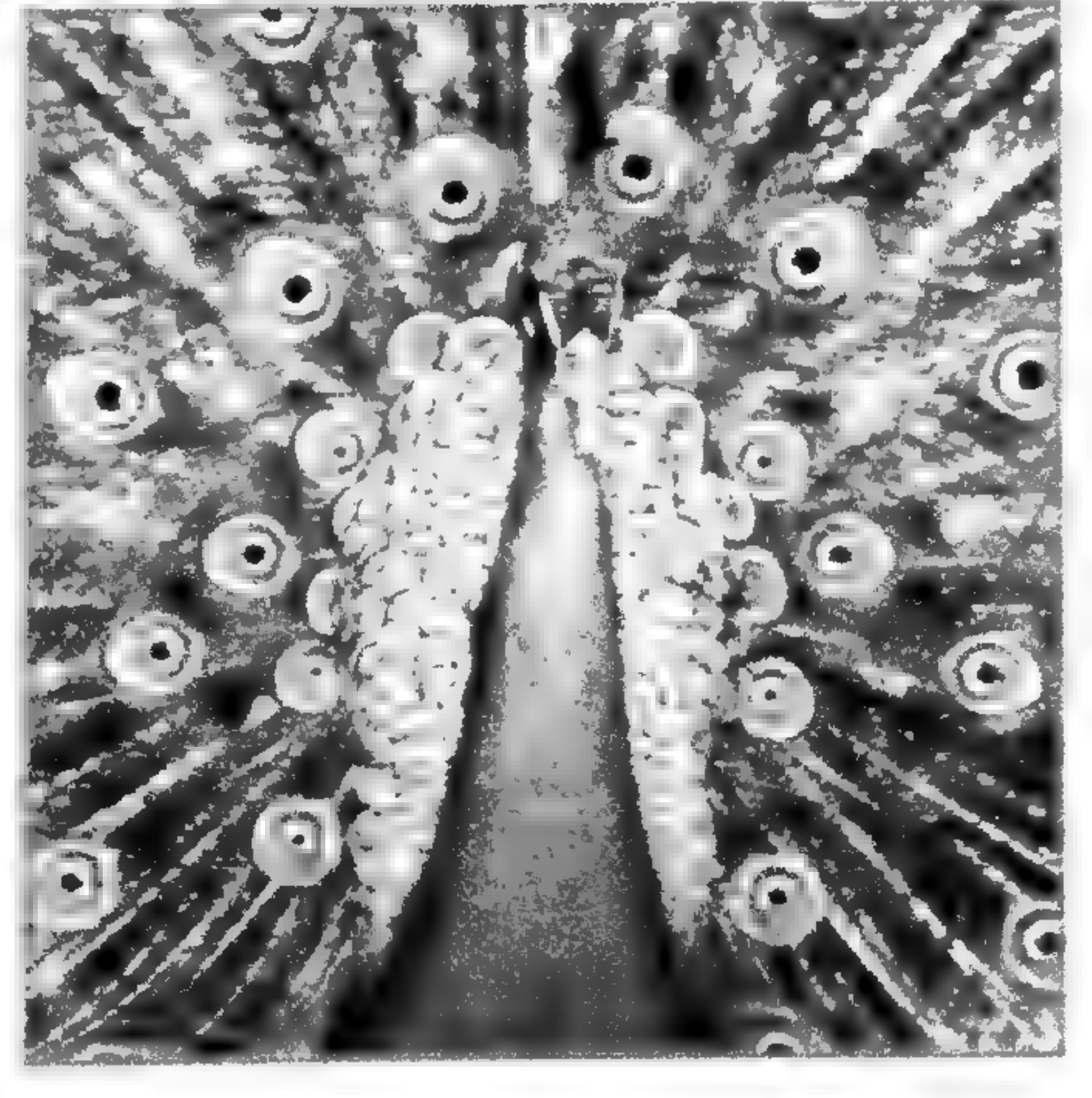
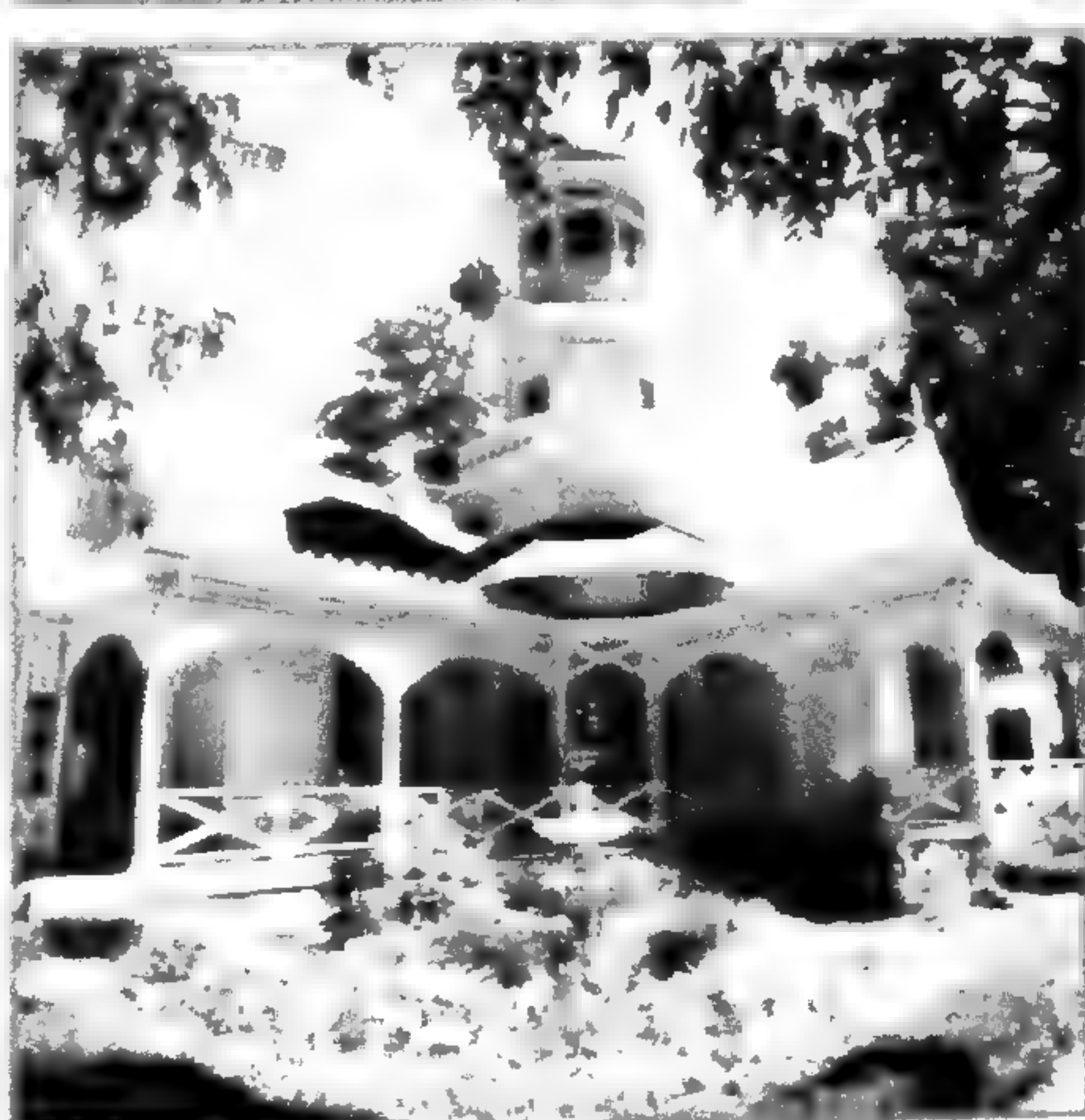
The Arboretum's archives are filled with Clyde's photographs, documenting many day-to-day activities as well as on-site shoots of weddings, television and motion picture productions, and special events. Amassing more than 3,000 hours of volunteer

service, Clyde's talents, expertise, and artistry has been applied to photographing botanical and wildlife. His photographs have been published in newspapers and magazines, Arboretum publications and appear on scenic postcards sold in the Gift Shop.

A combat photographer for the U.S. Air Force during the Korean War, Clyde was the first military photographer at the 1952 Korean Truce Talks. Clyde also had a history with local Arcadia and west San Gabriel Valley community organizations. He generously donated time to the historic Santa Anita Race Track where, among numerous key events, he photographed the 1984 Olympic Equestrian events.

Clyde Reavis will be missed, but long remembered through his generosity, his photographic talents, and the beauty of his photographs of The Arboretum.

Some of Clyde's many, many images taken for The Arboretum



DISCOVERY TRAILS

Engelmann Oaks (Quercus engelmannii) in Los Angeles County and their future

An Interview with Bart O'Brien, Director of Special Projects, Rancho Santa Ana Botanic Garden – Compiled by Susan C. Eubank, Arboretum Librarian



Bart O'Brien, Director of Special Projects Rancho Santa Ana Botanic Garden

On one of those hot, summer afternoons in July, Timothy Phillips, Acting Executive Officer and Susan Eubank, Arboretum Librarian, were privileged to spend time with Bart O'Brien looking at our Engelmann oak population and talking about its future. Mr. O'Brien is well-known in southern California as a powerful advocate for our native plants. The following article is the result of our conversations.

Bart first summarized what we know about the Los Angeles County Engelmann oaks:

The Engelmann oak population that naturally occurs in Los Angeles County originally occurred in a more-or-less continuous band of clay-loam mesa soils at the base of the San Gabriel Mountains from Altadena/Pasadena to Claremont. These oaks form a geographically separate group from the rest of the Engelmann oaks that are primarily found in similar soil conditions from the Santa Rosa Plateau (a Nature Conservancy preserve) in southwestern Riverside County to northwestern Baja California, Mexico. Botanists and naturalists are concerned that the Engelmann oak woodlands of Los Angeles County are essentially gone, and that the Los Angeles County population itself is threatened with extinction. A few remnant pockets of these oak woodlands are still found, and dozens of increasingly isolated individual specimens can still be seen along streets and alleys, and in private gardens. Nearly all of these oaks are old, and due to the changes caused by urbanization, there is very little successful establishment of the next generation of this valuable natural resource.

One of the most significant remaining natural occurrences of Engelmann oaks in LA County is at the Los Angeles County Arboretum and Botanic Gardens and on the nearby Santa Anita Racetrack. Another small group is at The Huntington Botanical Garden in San Marino. At the easternmost end of the range, Rancho Santa Ana Botanic Garden in Claremont has been establishing a population of these trees grown from acorns collected from mature isolated specimens from Altadena/Pasadena to Monrovia. The time has come for those interested in conserving the Engelmann oaks of LA County to work together and to come up with an overall management strategy to assure that this unique population continues to survive and thrive into the future.

Bart then went on to answer a series of questions we posed about our population of Engelmann oaks. The most important things we can do for our oaks are:

- Be sure that all mulch is kept at least 3 feet away from the crown of each tree.
- Be sure that when the areas with Engelmann oaks are watered, that the sprinklers are placed so that the trunks of these trees remain dry.
- Give each tree a separate identification code or number, and include the code on the maps of these specimens.
- Start collecting and growing out acorns from each of The Arboretum's individuals, and be sure that they are correctly coded to their specimen of origin.
- Establish a large area (on the appropriate soils) of The Arboretum where the Engelmann oak collection/population is given highest priority, with their needs governing the care and management of the area. The larger this area is, the better for these trees.

We talked more about the "grove" and our local "population." Bart believes that the oaks at Santa Anita Racetrack should be designated as part of the population that is also inclusive of the oaks at The Arboretum. In order for the public to understand how precious these trees are, we should designate them in a special way, such as "Heritage Grove" or "Engelmann Oak Preserve." The larger we can make that area, the better the chances are for those oaks to survive and to also have young oaks grow to replace the old trees.



He thinks we should be looking at an overall strategy for the Los Angeles County population of Engelmann oaks. We would need to identify the likely collaborators: Rancho Santa Ana Botanic Garden, The Arboretum, The Huntington Botanical Garden, and various city and county employees to really have this make sense biologically. One way to start is finding the earliest possible set of aerial photos and looking for the Engelmann oak woodlands on them in order to trace any surviving members of the population. Since these trees are restricted to heavier soils, and generally not coarse alluvium, correlating soils map information with the old aerial photos would likely be a quick way to find the native Engelmann oak populations.

He also had some specific recommendations about care of the Engelmann oaks in the existing grove on south side of Tallac Knoll:

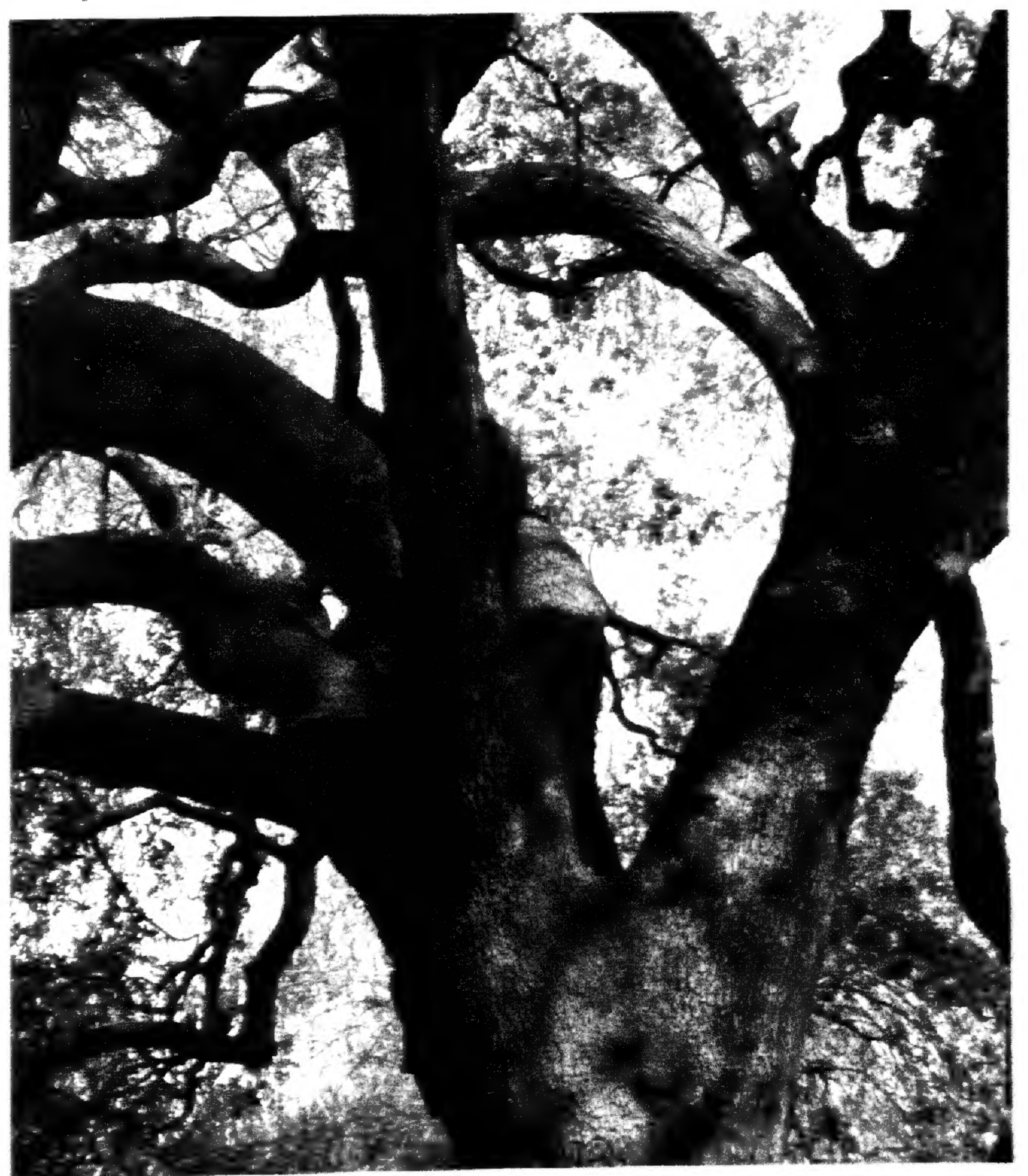
- **Watering:** In most years, none is necessary. In drought years, water a lot during the winter months (starting in mid-January if the season up to then has been dry and continuing through mid-April). Planted young trees (grown from acorns with known natural LA provenance) will likely require watering at about 2 week intervals (depending on actual weather conditions) for at least 2 to 3 summers before they can be "let go" to natural conditions.
- **Pruning:** Always prune in mid to late summer (mid-July to the end of September). For old trees, just prune out dead wood, and clean up any broken branches. For young trees prune to establish good form.
- **Understory:** Limit this to plants that naturally occur in the San Gabriel River watershed. Much of the natural vegetation in these woodlands would have been grasses, annuals, and some scattered shrubs.
- **Placing new, young oaks within the existing grove:** Actual placement of new trees would have to be carefully considered. Generally speaking, avoid planting under the canopy of any of your old natural specimens. Planting should take place between November and January. Spacing depends on location and whether or not you plan to do subsequent thinning.
- **Exotic plants in the grove:** Remove all exotics from within the designated boundaries of the Engelmann oak grove at The Arboretum. Simply put, they don't belong there and compete for resources with the Engelmann oaks. All undocumented exotic plants should be unceremoniously removed at the earliest convenience. Documented exotics could remain until they are repropagated and reestablished

elsewhere within The Arboretum. The grove should be checked each year (during the summer) and all new exotic plant seedlings should be removed.

For the other Engelmann oaks that are scattered at The Arboretum outside of our grove, we need to be particularly careful about following his first set of recommendations. Those trees are subject to care routines that are quite different from what they would receive in an undisturbed habitat.

Bart's recommendations for our nursery operation to raise young Engelmann oaks are simple and do not require lots of space. It does require careful record keeping in the nursery, active nursery care and maintenance. He suggests that large tree bands are probably the best alternative for growing these plants. Those that are not used can be sold for restoration projects within the San Gabriel River watershed (yes, there will be an ongoing need for these!) while others could be sold at our plant sales or given to community groups for their planting projects in the watershed. Few to none should go to waste!

If you are interested in helping with our Engelmann oaks, please contact Nancy Carlton, Volunteer Manager, at Nancy.Carlton@arboretum.org or 626-802-8471.



2007-2008 Annual Giving Campaign & General Donations

Garden Partners

\$1,200+
Pasadena Garden Club
The Garden Conservancy, Inc.

Supporters

\$300+
Diggers Garden Club of Pasadena
San Gabriel Nursery

Contributors

Up to \$299
Mr. & Mrs. Donald F. Baumann
Tischia Bluske
Kathy Bolster
Ken Carmichael
Dr. & Mrs. David Chin
Mrs. Linda Colley
Mrs. Mary Donovan
Junior League of Pasadena Garden Club
Frances S. La Mar
Cheryl A. Lehmann
Mrs. Mary McGrath
Mr. & Mrs. Jue Lee Quan
Mr. & Mrs. Ronald D. Street
Te & Art Waters

GRANTS & PROGRAMS

Bequests/Gift Planning

\$300,000+
Walter & Betty M. Tauer

\$50,000

Dr. Richard E. Brandes

Daylily Garden

William Wilk

In Memory of Barbara Cohen

Corinne C. Abell
Audrey Foran
Rayma Harrison
Quan Cohen & Hirano LLP
Mr. & Mrs. Howell N. Tyson
Mr. & Mrs. Richard G. Winslow

In Honor of Jackson Douvia

Monica Creason

In Memory of Edna Haley

Mr. & Mrs. Max R. Schreiber

In Honor of Jane Herrmann

Joan & Bob Banning
P.F. Berger
Jill Berry
Devon & Peter Bowes
George & Marilyn Brumder
Robert Burrows
Mr. & Mrs. William D. Burrows
Mr. & Mrs. Richard I. Cole
T. Samuel Coleman
Susan H. Crampton
Mrs. Julie Crouch
Mary Anne A. Cunningham
Mr. & Mrs. Joseph Daniel
Kathryn W. Ferguson
Mr. & Mrs. Robert Frank
Kathy & Robert W. Gillespie
Amanda Goodan & William Koelsch
Mr. & Mrs. Allen Greif
Mr. & Mrs. Frank Griffith
Burks Hamner
George & Sally Harris
Tinker Herrmann
Mr. & Mrs. Robert C. Hipolito
Judy M. Horton
Mr. & Mrs. John B. Jakle
Mr. & Mrs. Dennis Johnson
Gary Jones
Mr. & Mrs. Dennis S. Juett
Mr. & Mrs. Robert A. Knisel
Sue & Doug Kranwinkle
Bill & Ginger Lincoln
Mr. & Mrs. Ericson List
Mr. & Mrs. Jacob Maarse
Nancy & William F. McDonald
Caroline Miller
Carolyn & Charles Miller
Louisa N. Miller
Arnie & Gretl Mulder
Francisca B. Neumann
Mr. & Mrs. Francis O'Meara
Robyn B. Puntch
Peggy & Lee T. Rahn
Mr. & Mrs. Joseph Ryan
Michael S. Sanchez
Mrs. Dorothy M. Scully
Mr. & Mrs. Steven N. Serrurier

Mr. & Mrs. William Steinwedell

Mr. & Mrs. R. Bruce Stewart

William Tooley

Christopher Winckler

Jeff Winckler

Mark Wourms & Patty Johnson

Ms. Linda Zinn & Mr. Richard Davis

In Memory of Edward LaDou

Including Memorial Tree

Carrie LaDou

In Honor of Virginia Lincoln

Daryl Twerdahl

In Memory of Grace Parnell

Florine Alexander

In Memory of Hazel Gwen Racker

Mr. & Mrs. William E. Lewis

Nancy H. Lecourt

In Memory of

Charlene Torres Vasques

Including Memorial Tree

Brenda Beeck

Erik Cantu

Jane Chan

Angela Coon

Mr. & Mrs. Charles Fisher

Liza Flecha

Peter Forrest

Connie Ganog

Anthony J. Haroian

Jim Hogland

Robert Karns

Mr. & Mrs. Caesar Martinez

Thomas J. McGough

Holly Mitchell

Ryan Niccola

Patsy Ochoa

Kristin Rolla

Linda Sandoval

Hope Sandoval

Ronaldo Sandoval

Marty Smith

Betty Tucker

Suzan Ward

Sarah Yang

In Honor of Mark Wourms

Mr. & Mrs. C. Douglas Kranwinkle

Community Partners

Admixtures Inc.
Ark Construction
Eye of the Day Garden Design Ctr.
Glendale Builders' Supplies
Mountain States Nursery
New Metro Tile Co.
Ricardo's Nursery
Suncrest Nurseries, Inc.
Tarika Thompson's Garden & Orchid Nursery

In-Kind Donations

Ricardo Arrivillaga
Mr. & Mrs. Eddie Bermudez
Mr. & Mrs. Joe Bermudez
Mike Craib
Mark Darling
Brent & Suzi Freitas
Steve Gerischer
George Hull
Malia Mailangi
Bart Streuter
Tarika Thompson
Kristi & Paolo Toia
Zoe Topsfield

The Arboretum's mission is to cultivate our natural, horticultural and historic resources for learning, enjoyment and inspiration.
We appreciate your year round support.

Listed above are donations received between May 24, 2008 and August 14, 2008
Please call 626-821-3208 and let us know if we inadvertently misspelled or omitted your name.

Corporate Partnership & Conservation: Water Conservation Event

In line with efforts in conservation, The Arboretum is partnering with Rain Bird Corporation for a second year of exploring water conservation through short films that portray creative solutions to water conservation. These films are selected from all entries submitted during the Rain Bird Intelligent Use of Water Film Competition. Rain Bird Corporation in partnership with The Arboretum is co-hosting a water conservation event where a cinematic exploration will occur on October 11, 2008 beginning at 6:30 pm at The Arboretum. An outdoor reception with beverages and hors d'oeuvres will welcome guests.

For tickets call 1.800.838.3006 or go to www.arboretum.org



DEPARTMENT CONTACTS

Office of the CEO	626.625.0032
Superintendent of Grounds	626.625.0032
Education	626.821.4623
Plant Information	626.821.3239
Schools Tours	626.821.3216
Group Rates	626.821.3208
Communications	626.821.3208
Development	626.821.3208
Memorials	626.821.3208
Membership	626.821.3233
Volunteers	626.802.8471
Filming/Commercial Shoots	626.821.3204
Weddings/Photography	626.821.3211
Peacock Cafe	626.447.0641
Garden & Gift Shop	626.447.8751
Library	626.821.3213

Open daily from 9am-5pm;
admission closes at 4:30 pm.

Free parking.

Picnic area is available outside of the main entrance.

626.821.3222
www.arboretum.org

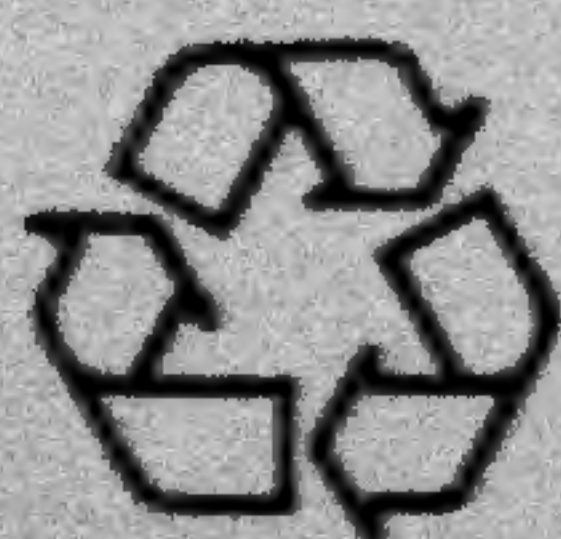
Cover image:
The Arboretum in fall, by Clyde Reavis



By buying products with
the FSC label you are
supporting the growth
of responsible forest
management worldwide

CW-COC-1530

© 1996 Forest Stewardship Council A.C.



Please pass this on to a friend and recycle

Thank You

RAIN  BIRD.

For your annual support to
The Los Angeles Arboretum Foundation's
Plant Conservation Fund

NON PROFIT
ORGANIZATION
U.S. POSTAGE
PAID
ARCADIA, CA
No. 528


The Arboretum
LOS ANGELES COUNTY ARBORETUM & BOTANIC GARDEN
301 NORTH BALDWIN AVENUE, ARCADIA, CA, 91007